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JUN 14 1986

Access DB# 192861

# SEARCH REQUEST FORM

Pat. & T.M. Office Scientific and Technical Information Center

Requester's Full Name: Sm J. Lee Examiner #: 7606 Date: 6-13-06  
Art Unit: 1752 Phone Number: 302-1333 Serial Number: 10/R15,398  
Mail Box and Bldg/Room Location: 9C15 Results Format Preferred (circle): PAPER DISK E-MAIL

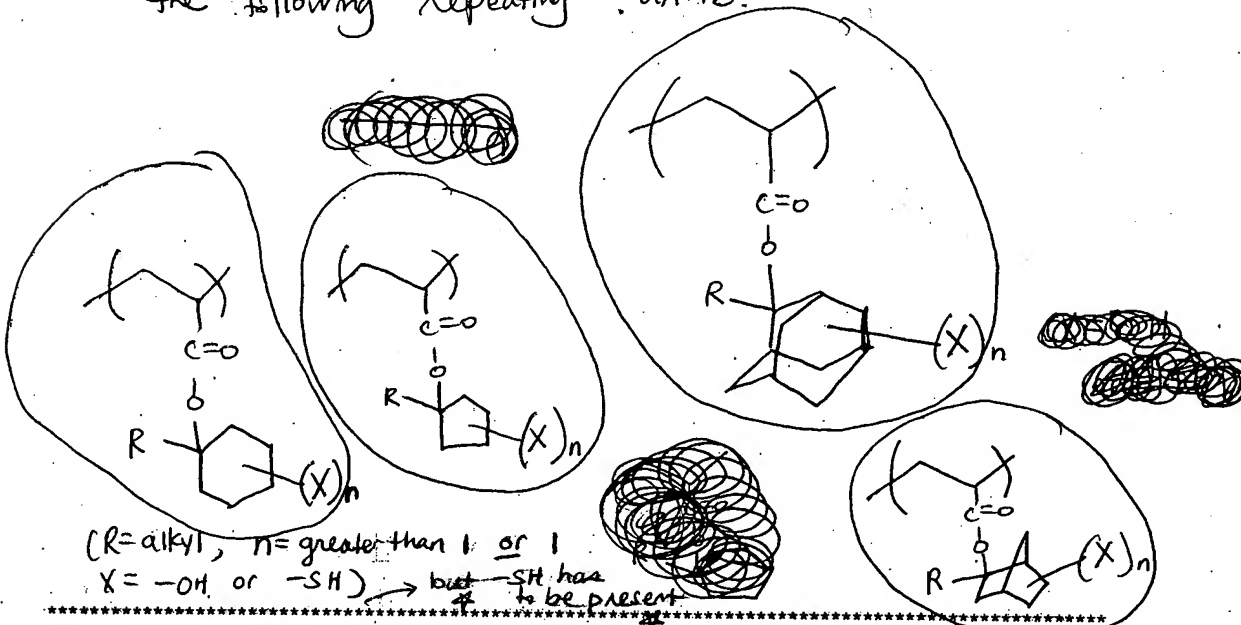
Rem.  
If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: P12. Acc B.b  
Inventors (please provide full names): \_\_\_\_\_  
Earliest Priority Filing Date: \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

— Please search for the polymer having <sup>any</sup> one of the following repeating units.



(R=alkyl, n= greater than 1 or 1  
X = -OH or -SH) → but SH has to be present

## STAFF USE ONLY

Searcher: <u>EL</u>	Type of Search	Vendors and cost where applicable
Searcher Phone #: _____	NA Sequence (#) _____	STN _____
Searcher Location: _____	AA Sequence (#) _____	Dialog _____
Date Searcher Picked Up: _____	Structure (#) _____	Questel/Orbit _____
Date Completed: <u>6-15-06</u>	Bibliographic _____	Dr. Link _____
Searcher Prep & Review Time: _____	Litigation _____	Lexis/Nexis _____
Clerical Prep Time: _____	Fulltext _____	Sequence Systems _____
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## \*BIBDATASHEET\*

Bib Data Sheet

CONFIRMATION NO. 7576

SERIAL NUMBER 10/815,398	FILING DATE 03/31/2004 RULE	CLASS 430	GROUP ART UNIT 1752	ATTORNEY DOCKET NO. 42P18694
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APPLICANTS

Wang Yueh, Portland, OR;  
Ernisse S. Putna, Beaverton, OR;

\*\* CONTINUING DATA \*\*\*\*\*  
None STL

\*\* FOREIGN APPLICATIONS \*\*\*\*\*  
None STL

IF REQUIRED, FOREIGN FILING LICENSE GRANTED  
\*\* 06/10/2004

Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	35 USC 118 (a-d) conditions met <input type="checkbox"/> yes <input checked="" type="checkbox"/> no	STATE OR COUNTRY OR	SHEETS DRAWING 1	TOTAL CLAIMS 30	INDEPENDENT CLAIMS 4
Verified and Acknowledged	Examiner's Signature <i>[Signature]</i> Initials STL				

ADDRESS

08791  
BLAKELY SOKOLOFF TAYLOR & ZAFMAN  
12400 WILSHIRE BOULEVARD  
SEVENTH FLOOR  
LOS ANGELES, CA  
90025-1030

TITLE

Resist compounds including acid labile groups having hydrophilic groups attached thereto

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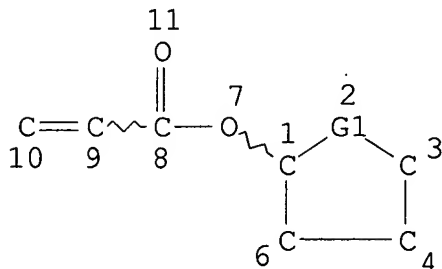
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FILE 'ZCA' ENTERED AT 15:03:39 ON 15 JUN 2006  
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L5 STR



17 S E1

REP G1=(0-3) C

NODE ATTRIBUTES:

HCOUNT IS E1 AT 17

CONNECT IS E1 RC AT 17

DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 11

STEREO ATTRIBUTES: NONE  
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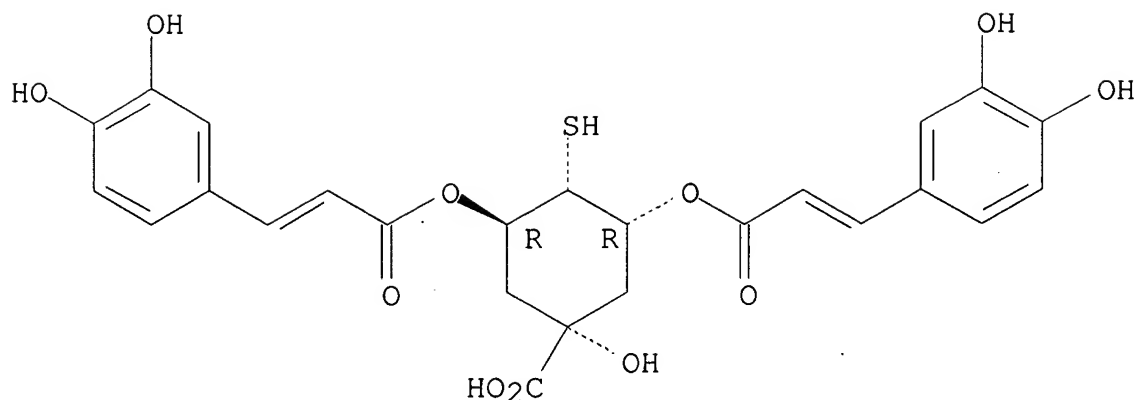
12 ANSWERS

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L9 ANSWER 1 OF 10 ZCA COPYRIGHT 2006 ACS on STN  
144:156726 Pharmaceutical compositions from ethnobotanicals. Shimasaki,  
Craig D.; Ojwang, Joshua O. (USA). U.S. Pat. Appl. Publ. US  
2006020029 A1 20060126, 24 pp. (English). CODEN: USXXCO.  
APPLICATION: US 2005-157129 20050620. PRIORITY: US  
2004-2004/PV585117 20040702.  
AB This invention relates to the field of drug discovery.  
Specifically, it describes a method ("Inverted Drug Screening" or  
"IDS") of identifying therapeutics from ethnobotanical (EB) preps.  
by repeatedly fractionating and testing fractions from EB sources.  
One aspect of the invention relates to quinic acid derivs. (e.g.,  
derivs. of 3,5-dicaffeoylquinic acid) for the treatment of  
respiratory syncytial virus (RSV) infection.  
IT **874183-60-5**  
(pharmaceutical compns. from ethnobotanicals)  
RN 874183-60-5 ZCA  
CN Cyclohexanecarboxylic acid, 3,5-bis[[3-(3,4-dihydroxyphenyl)-1-oxo-2-  
propenyl]oxy]-1-hydroxy-4-mercapto-, (1.alpha.,3.alpha.,4.alpha.,5.b  
eta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry unknown.

IT **874183-60-5**

(pharmaceutical compns. from ethnobotanicals)

L9 ANSWER 2 OF 10 ZCA COPYRIGHT 2006 ACS on STN

121:230578 (5S)-penem derivatives, their preparation and use.

Southgate, Robert; Coulton, Steven; Smale, Terence Charles; Allsop, Aileen Edwina; McLean, Sara Denise (Smithkline Beecham PLC, UK).

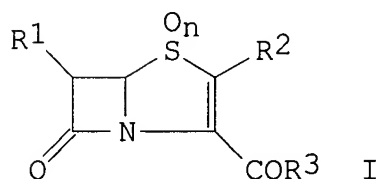
PCT Int. Appl. WO 9403168 A1 19940217, 64 pp. DESIGNATED STATES: W:

AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG.

(English). CODEN: PIXXD2. APPLICATION: WO 1993-GB1589 19930727.

PRIORITY: GB 1992-16102 19920729.

GI



AB Title compds. I ( $R_1 = \text{H}, , R_3\text{CO}$  wherein  $R_3 = \text{ester- or amide-forming group stable toward in vivo hydrolysis}$ ;  $R_2 = \text{H, substituent}$ ;  $n = 0,1$ ) useful as an inhibitor of the bacterial enzyme leader peptidase 1, are prepd.. 4-Acetoxyazetidin-2-one was added to Na (-)-cis-.beta.-[(carbomenthyl)oxy]vinyl mercaptan to give the (4S)-cis deriv. which was treated with benzyl glyoxylate to give diastereomeric hydroxyacetates, treated with  $\text{SOCl}_2$  to give the chloroacetates, treated with  $\text{Ph}_3\text{P}$  to give benzyl [(4S)-(cis-.beta.-carbomenthyloxyvinylmercapto)2-oxoazetidin-1-yl]-

triphenylphosphoranylideneacetate which was reacted with  $\text{CF}_3\text{CO}_2\text{H}$  and  $\text{O}_3$  to give I ( $\text{R}_1 = \text{R}_2 = \text{H}$ ,  $\text{R}_3 = \text{PhCH}_2$ ,  $n = 0$ ) (II). II at 100. $\mu\text{M}$  inhibited peptidase 1 100%.

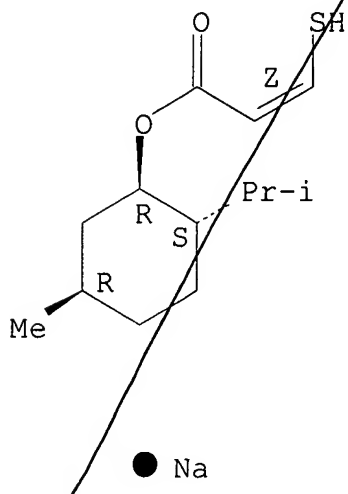
IT **72118-54-8**

(reaction of, in prepn. of peptidase 1 inhibitors)

RN 72118-54-8 ZCA

CN 2-Propenoic acid, 3-mercapto-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, sodium salt, [1R-[1.alpha.(Z),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



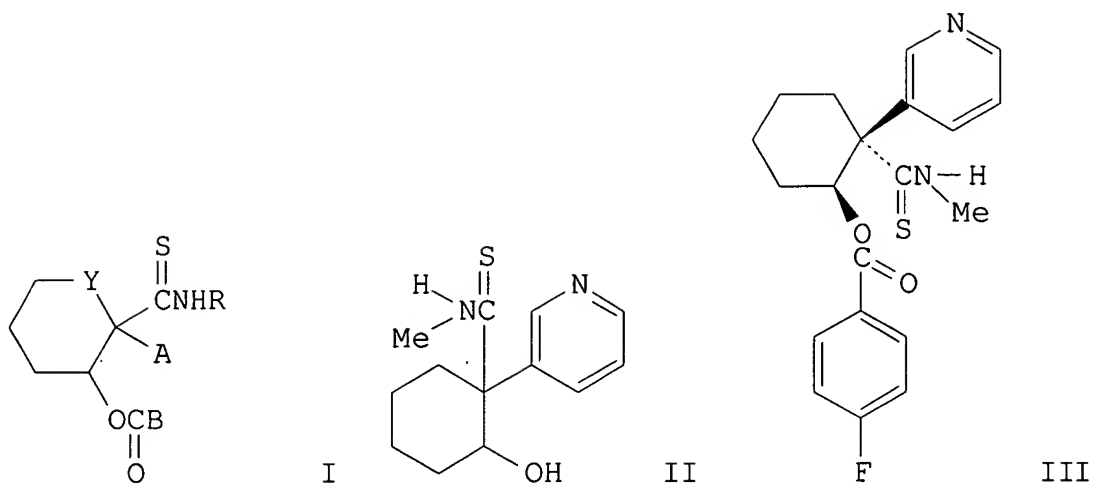
IT **72118-54-8**

(reaction of, in prepn. of peptidase 1 inhibitors)

L9 ANSWER 3 OF 10 ZCA COPYRIGHT 2006 ACS on STN

114:184869 Preparation of thioformamide derivatives. Hart, Terance William; Vacher, Bernard Yvon Jack; Sharp, Brian William (Rhone-Poulenc Sante, Fr.). Eur. Pat. Appl. EP 390693 A1 19901003, 29 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1990-400868 19900330. PRIORITY: GB 1989-7307 19890331; GB 1989-13862 19890616.

GI



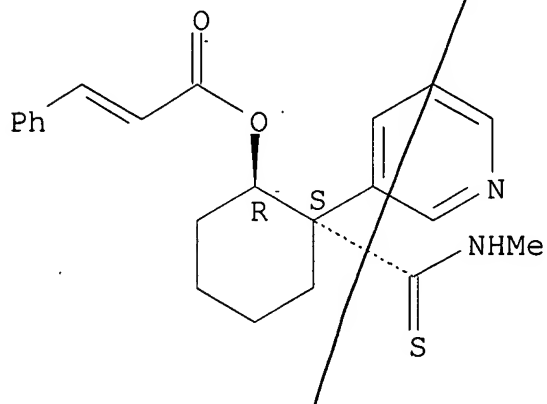
AB Thioformamide derivs. I [R = alkyl; A = (substituted) Ph or heteroaryl; Y = CH<sub>2</sub>, CH<sub>2</sub>CH<sub>2</sub>, or bond; B = (substituted) Ph, pyridyl, furyl, thienyl, C1-6 alkyl, C2-6 alkenyl, or cycloalkyl, etc.], useful as vasodilators, were prepd. For example, a mixt. of (.+-.)-trans-II (prepn. given), 4-FC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H, DCC, and 4-dimethylaminopyridine in MeCN was stirred for 18 h at 20.degree.. Subsequent work-up and isolation gave title compd. (.+-.)-trans-III. III at 0.0003 .mu.M reduced K<sup>+</sup>-induced contraction of rat aorta by 90%. The EC<sub>90</sub> of 52 other I were detd.

IT **133219-55-3P 133219-63-3P**  
(prepn. of, as vasodilator)

RN 133219-55-3 ZCA

CN 2-Propenoic acid, 3-phenyl-, 2-[(methylamino)thioxomethyl]-2-(3-pyridinyl)cyclohexyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.  
Double bond geometry unknown.

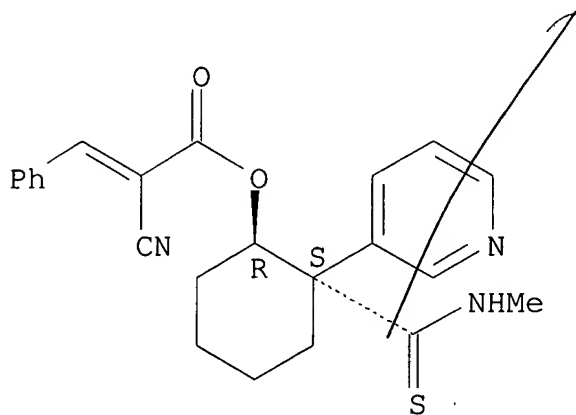


RN 133219-63-3 ZCA

CN 2-Propenoic acid, 2-cyano-3-phenyl-, 2-[(methylamino)thioxomethyl]-2-(3-pyridinyl)cyclohexyl ester, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

Double bond geometry unknown.



IT **133219-55-3P 133219-63-3P**  
(prepn. of, as vasodilator)

L9 ANSWER 4 OF 10 ZCA COPYRIGHT 2006 ACS on STN

114:30120 Adhesive composition containing a polymerizable thiocarboxylic acid or a derivative thereof for bonding metals. Kawashima, Mitsunobu; Omura, Ikuo (Kuraray Co., Ltd., Japan). Eur. Pat. Appl. EP 348166 A2 19891227, 24 pp. DESIGNATED STATES: R: DE, FR, GB, IT, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1989-306251 19890620. PRIORITY: JP 1988-152491 19880620; JP 1988-198623 19880808.

AB An adhesive compn. comprises a polymerizable thiocarboxylic acid or deriv.,  $R_1C(:X_1)R_2$  (I;  $X_1 = O, S$ ; when  $X_1 = O$ ,  $R_1 =$  org. group contg.  $\geq 1$  olefinic double bond and  $R_2 = SH$ ; when  $X_1 = S$ ,  $R_1 =$  org. group and  $R_2 = SH, halo, OR_3, SR_3$ ;  $R_3 =$  monovalent org. group;  $\geq 1$  of  $R_1$  and  $R_3$  has  $\geq 1$  olefinic double bond) and a solvent which is either copolymerizable or noncopolymerizable with I. The compn. is used as a primer or an adhesive and provides a H<sub>2</sub>O-resistant, high-strength bond to various metals used in dental and other applications. 11-Methacryloyloxyundecanedithioic acid (II) was prepd. by (a) reacting 10-bromo-1-decene with Mg and then with CS<sub>2</sub>; (b) treating the product of (a) with HBr; and (c) treating the product of (b) with Ag methacrylate. A pure Au plate, a dental Au-Ag-Pd alloy, and a dental Au-Pt-Pd alloy, were reinforced with a 4-mm thick stainless steel plate on the reverse side, and coated with a monolayer of II (from 1 wt. % toluene soln.). An adhesive tape with a 5-mm diam. aperture was applied to the surface to prep.



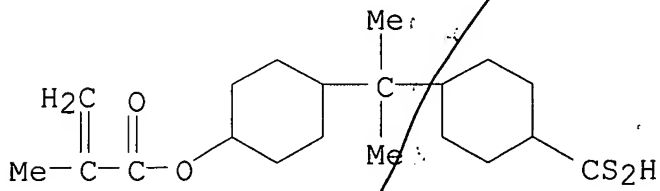
an adherent surface. The end face of a round bar of SUS 304 contg. a paste of dental adhesive (methacrylic acid ester 100, Na sulfinate-benzoyl peroxide-tertiary amine polymn. initiator 3, and silanized inorg. filler 320 wt. parts) was pressed against the adherent surface for bonding. After 1 h, the test piece was immersed in water at 37.degree. for 24 h before tensile bond strength was measured. The bond strength was 360, 378, and 389 kg/cm<sup>2</sup> to the 3 metals, resp.

IT **131264-84-1**

(as adhesive component of primer, dental gold-based alloys bonding with)

RN 131264-84-1 ZCA

CN 2-Propenoic acid, 2-methyl-, 4-[1-[4-(dithiocarboxy)cyclohexyl]-1-methylethyl]cyclohexyl ester (9CI) (CA INDEX NAME)



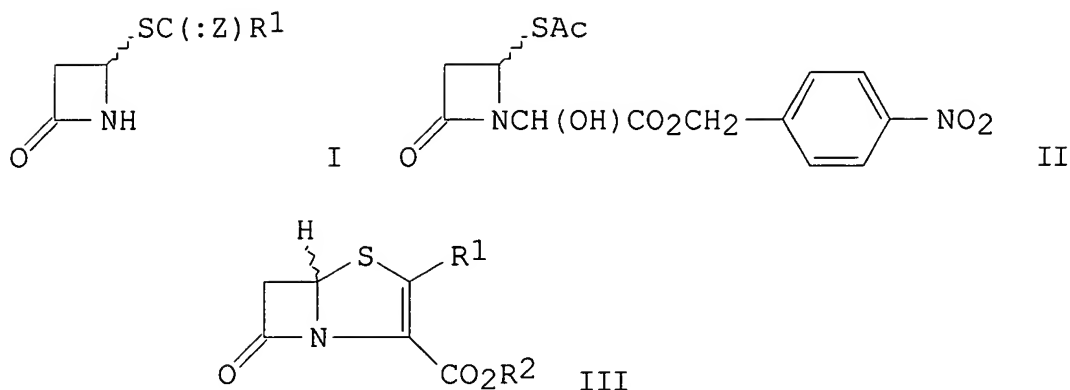
IT **131264-84-1**

(as adhesive component of primer, dental gold-based alloys bonding with)

L9 ANSWER 5 OF 10 ZCA COPYRIGHT 2006 ACS on STN

106:32694 Thioazetidinones. Gosteli, Jacques; Ernst, Ivan; Woodward, Robert Burns (Ciba-Geigy A.-G., Switz.). Pat. Specif. (Aust.) AU 544572 B2 19850606, 209 pp. (English). CODEN: ALXXAP.  
APPLICATION: AU 1982-81231 19820309.

GI



AB The title compds. [I; Z = O, S, (un)substituted CH<sub>2</sub>; R<sub>1</sub> = H, (un)substituted hydrocarbyl, heterocyclylhydrocarbyl, thiohydrocarbyl, (un)protected CO<sub>2</sub>H] were prepd., and in some cases resolved, as 2-penemcarboxylic acid intermediates. Thus, (4RS)-4-acetoxiazetid-2-one was substituted with MeCOSH to give I (Z = O, R<sub>1</sub> = Me). This was alkylated with EtOCH(OH)CO<sub>2</sub>CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>NO<sub>2</sub>-4 to give 1-azetidylacetic acid II. The latter was converted to the 2-triphenylphosphoranylideneacetic acid in 2 steps, cyclized and debenzylated to give (5RS)-2-methyl-2-penem-3-carboxylic acid (III R<sub>1</sub> = Me, R<sub>2</sub> = H) (IV). Capsules were prepd. contg. 0.25 g IV from a mixt. contg. IV 250,000, corn starch 50,000, polyvinylpyrrolidone 15,000, Mg stearate 5000 g, and EtOH. In mice, III (R<sub>2</sub> = H, protecting group) were active against Streptococcus at 8 to 50 mg/kg s.c.

IT **105625-34-1P**

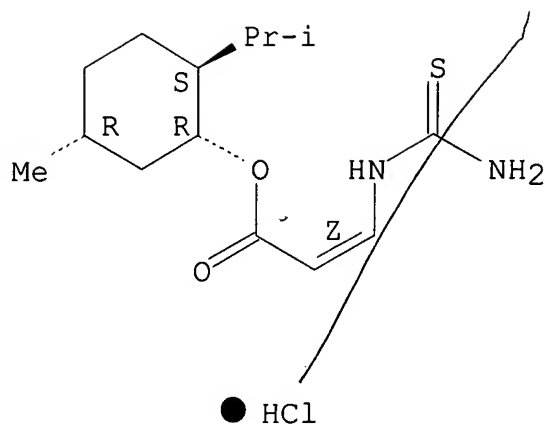
(prepn. and substitution by, of acetoxiazetid-2-one)

RN 105625-34-1 ZCA

CN 2-Propenoic acid, 3-[(aminothioxomethyl)amino]-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, monohydrochloride, [1R-[1.alpha.(2Z),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry as shown.



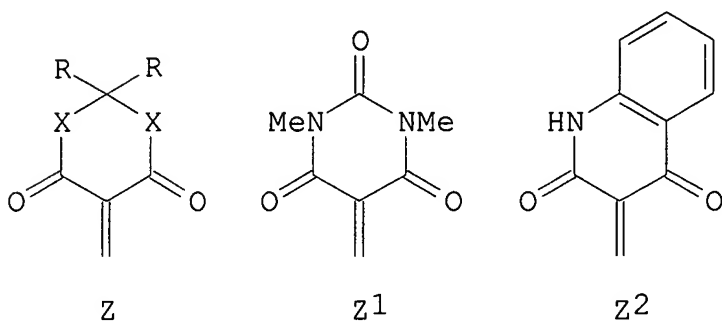
IT 105625-34-1P

(prepn. and substitution by, of acetoxazetidinone)

L9 ANSWER 6 OF 10 ZCA COPYRIGHT 2006 ACS on STN

92:180132 Thioenol ethers and their use. Ehrhardt, Heinz; Ertel, Hartmut; Mildenerger, Hilmar; Sachse, Burkhard; Hartz, Peter (Hoechst A.-G., Fed. Rep. Ger.). Ger. Offen. DE 2821639 19791122, 35 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1978-2821639 19780518.

GI



AB R2R3C:CR1SR4 [R1 = H, C1-6 aliph., phenyl(C1-3)alkyl, (un)substituted Ph; R2, R3 independently = NO2, cyano, R5CO, R5SO2 [R5 = (un)substituted NH2, C1-5 (un)substituted alkyl, C2-6 alkenyl or alkynyl, (un)substituted Ph], CR2R3 = Z (R = H, X = CH2; R = Me, X = CH2, O), Z1, Z2; R4 = C1-18 (un)substituted alkyl, C2-8 alkenyl, naphthyl, (un)substituted Ph, (CH2)nCO2R7 (R7 = H, C1-18 alkyl; n = 1, 2), CH2CH2SH, CHMeCH2SH], useful as agricultural bactericides and fungicides (extensive data tabulated), were prepd. by 4 methods. Thus, HSCH2CO2Et and EtOCH:C(COMe)CO2Et were stirred 4 h at

150.degree. to give 84% of a 70:30 (E)-(Z) mixt. of  
MeCOC(CO2Et):CHSCH2CO2Et.

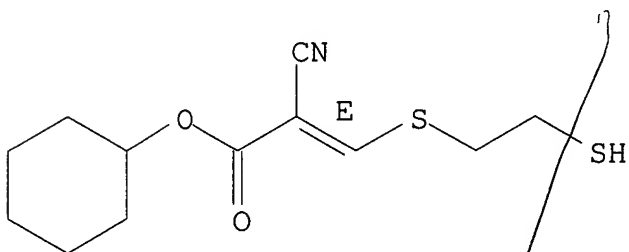
IT **73386-53-5P 73388-28-0P**

(prepn. of)

RN 73386-53-5 ZCA

CN 2-Propenoic acid, 2-cyano-3-[(2-mercaptoethyl)thio]-, cyclohexyl  
ester, (E)- (9CI) (CA INDEX NAME)

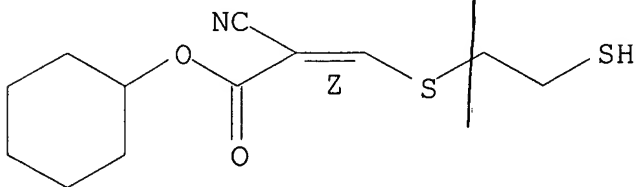
Double bond geometry as shown.



RN 73388-28-0 ZCA

CN 2-Propenoic acid, 2-cyano-3-[(2-mercaptoethyl)thio]-, cyclohexyl  
ester, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT **73386-53-5P 73388-28-0P**

(prepn. of)

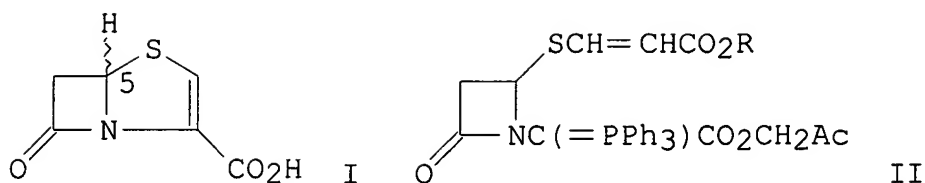
L9 ANSWER 7 OF 10 ZCA COPYRIGHT 2006 ACS on STN

92:22429 The penems, a new class of .beta.-lactam antibiotics. 4.

Syntheses of racemic and enantiomeric penem carboxylic acids.

Pfaendler, H. R.; Gosteli, J.; Woodward, R. B. (Woodward Res. Inst.,  
Basel, CH-4002, Switz.). Journal of the American Chemical Society,  
101(21), 6306-10 (English) 1979. CODEN: JACSAT. ISSN: 0002-7863.

GI



AB Racemic and enantiomeric penem-3-carboxylic acids I were prepd. from 4-acetoxy-2-azetidinone via the phosphoranes II [R = Me, (-)-menthyl], which underwent successive ozonolysis and intramol. Wittig reaction to give I ester derivs. (5R)-I is bactericidally active.

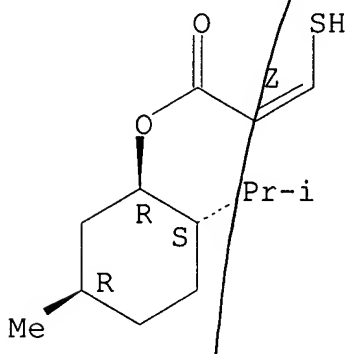
IT **72118-54-8P**

(prepn. and reaction of, with acetoxyazetidinone)

RN 72118-54-8 ZCA

CN 2-Propenoic acid, 3-mercapto-, 5-methyl-2-(1-methylethyl)cyclohexyl ester, sodium salt, [1R-[1.alpha.(Z),2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.  
Double bond geometry as shown.



● Na

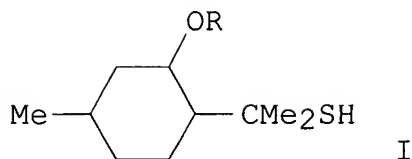
IT **72118-54-8P**

(prepn. and reaction of, with acetoxyazetidinone)

L9 ANSWER 8 OF 10 ZCA COPYRIGHT 2006 ACS on STN

85:5911 p-Menthane derivatives. Lamparsky, Dietmar; Schudel, Peter (Givaudan, L., et Cie. S. A., Switz.). Patentschrift (Switz.) CH 573906 19760331, 3 pp. (German). CODEN: SWXXAS. APPLICATION: CH 1975-2159 19711005.

GI



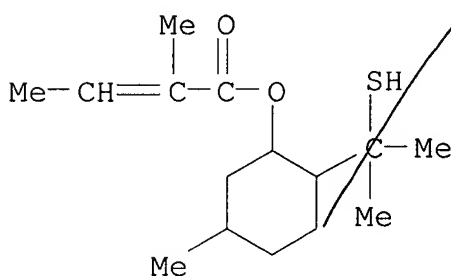
AB The esters I [R = PrCO, isovaleroyl, EtCHMeCO, (E)-MeCH:CMeco, formyl], useful as flavorants and odorants, were prepd. by esterification of the alc. with the acid anhydride or chloride in the presence of pyridine.

IT **38462-19-0P**

(prepn. of, for flavorants and odorants)

RN 38462-19-0 ZCA

CN 2-Butenoic acid, 2-methyl-, 2-(1-mercapto-1-methylethyl)-5-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IT **38462-19-0P**

(prepn. of, for flavorants and odorants)

L9 ANSWER 9 OF 10 ZCA COPYRIGHT 2006 ACS on STN

78:110476 Influence of substituents on preparation and tautomerism of open-chain .beta.-thio keto esters. Structure determination by NMR and infrared spectroscopy. Duus, F. (Dep. Chem., Aarhus Univ., Aarhus, Den.). Tetrahedron, 28(24), 5923-47 (English) 1972. CODEN: TETRAB. ISSN: 0040-4020. OTHER SOURCES: CASREACT 78:110476.

GI For diagram(s), see printed CA Issue.

AB The acid-catalyzed reactions of 36 .beta.-keto esters, RCOCHR1CO2R2 (I), with H2S were studied. Passing H2S and HCl at -60.degree. or higher temps. through I (R1 = H) in MeCN or EtOH gave tautomers of RCSCHR1CO2R2 (II), whereas .alpha.-substituted I gave gem-dithiols, RC(SH)2CHR1CO2R2, or II depending on R1 and the reaction conditions. Alkyl halides and II Tl(I) salts gave S-alkylation. NMR and ir showed that the .beta.-thioxo esters II (R1 = H) exist as the

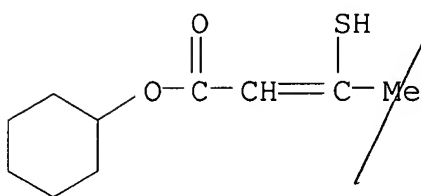
intramol. H-bonded cis-enethiol tautomers (III). The .alpha.-substituted esters exist as approx. 1:1 mixts. of the cis- and trans-enethiols, due to steric crowding. NMR chem. shifts as indicators of intramol. H-bonding and the long-range through-bond and through-space couplings involving enethiolic protons were discussed.

IT **40553-18-2P**

(prepn. of)

RN 40553-18-2 ZCA

CN 2-Butenoic acid, 3-mercapto-, cyclohexyl ester (9CI) (CA INDEX NAME)



IT **40553-18-2P**

(prepn. of)

L9 ANSWER 10 OF 10 ZCA COPYRIGHT 2006 ACS on STN

77:114601 8-Mercapto-3-(acyloxy)-p-menthanes. Lamparsky, Dietmar; Schudel, Peter (Givaudan, L., et Cie S. A.). Ger. Offen. DE 2152015 19720531, 14 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1971-2152015 19711019.

GI For diagram(s), see printed CA Issue.

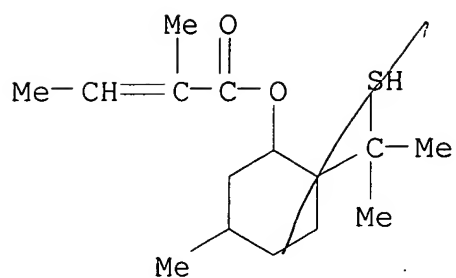
AB Six title compds. [I, R = Me(II), Pr, CH<sub>2</sub>CHMe<sub>2</sub>, CH<sub>2</sub>EtMe, H, or CMe:CHMe], which were used as odors or flavors, were prep'd. by reaction of 8-mercapto-3-hydroxy-p-menthane (III) with the appropriate anhydrides or acid chlorides. Thus, hydrogenation of 8-mercapto-3-oxo-p-menthane with LiAlH<sub>4</sub> or NaBH<sub>4</sub> gave 80 or 70% III, resp. Reaction of III with Ac<sub>2</sub>O in the presence of pyridine .apprx.12 hr at 0.degree. gave II.

IT **38462-19-0P**

(prepn. of)

RN 38462-19-0 ZCA

CN 2-Butenoic acid, 2-methyl-, 2-(1-mercapto-1-methylethyl)-5-methylcyclohexyl ester (9CI) (CA INDEX NAME)



IT **38462-19-0P**  
(prepn. of)